

[ONSITE] BSC Training Course: Introduction to CUDA Programming @ BSC

Monday, July 6, 2026 - Wednesday, July 8, 2026

UPC Campus Nord, Barcelona

Scientific Program

Monday May 27th, 2024

9:15 The Basics (Antonio J. Peña)

10:45 Coffee Break

11:15 Parallelism Model (Leonidas Kosmidis)

13:00 Lunch Break

14:00 Memory and Data Locality (Leonidas Kosmidis)

15:45 Coffee Break

16:15 Hands-on labs (Marc Jordà)

18.00 Adjourn

Tuesday May 28th, 2024

9:00 Efficiency and Performance Considerations (Leonidas Kosmidis)

10:45 Coffee Break

11:15 Atomics and Histogramming, Reductions (Marc Jordà)

13:00 Lunch Break

14:00 Architectural Considerations (Antonio J. Peña)

14:45 Efficient Host-Device Data Transfers (Antonio J. Peña)

15:45 Coffee Break

16:15 Hands-on labs (Marc Jordà)

18.00 Adjourn

Wednesday May 29th, 2024

9:00 OpenACC and Other Approaches to GPU Computing (Antonio J. Peña)

10:45 Coffee Break

11:15 Latest Architecture & CUDA Features (Marc Jordà)

13:00 Lunch Break

14:00 Hands-on labs (Marc Jordà)

18.00 END of COURSE